

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/644,777	08/21/2003	Hitoshi Tanaka	501.38519CC2	6904
20457	7590 09/02/2004		EXAMINER	
ANTONELLI, TERRY, STOUT & KRAUS, LLP 1300 NORTH SEVENTEENTH STREET			CUNNINGHAM, TERRY D	
SUITE 1800		ART UNIT	PAPER NUMBER	
ARI INGTON VA 22209-9889			2816	

DATE MAILED: 09/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Andies Occurs	10/644,777	TANAKA, HITOSHI			
Office Action Summary	Examiner	Art Unit			
	Terry D. Cunningham	2816			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a re ly within the statutory minimum of thirty will apply and will expire SIX (6) MONI e. cause the application to become ABI	ply be timely filed (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on	<u>_</u> .				
	s action is non-final.				
	, and the state of				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
 4) Claim(s) 1-20 is/are pending in the application 4a) Of the above claim(s) 12-20 is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-11 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or 	wn from consideration.				
Application Papers					
9)☐ The specification is objected to by the Examiner.					
10)⊠ The drawing(s) filed on <u>21 August 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Ex					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) △ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☒ Certified copies of the priority documents have been received in Application No. 09/565,116. 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
1) Notice of References Cited (PTO-892)		ummary (PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 08/21/03.		/Mail Date formal Patent Application (PTO-152) 			

DETAILED ACTION

Election/Restrictions

The traversal is on the ground(s) that there is no serious additional burden on the Examiner. This is not found persuasive because the section cited by Applicant is concerning Restriction Requirements, not Elections of Species. Additionally, Applicant has not provided a showing as to why there would be no serious burden to the Examiner to address these claims. Therefore, claims 12-20 are withdrawn from further consideration as being drawn to a nonelected invention

The requirement is still deemed proper and is therefore made FINAL.

Claim Rejections - 35 USC § 112

Claims 1-11 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, line 34, it appears that the language therein is misdescriptive. It appears that "third" should be changed to --second--.

Claims 2-11 are rejected as including the indefiniteness discussed above with claim 1.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Tsukada (USPN 5,521,547). Tsukada discloses, in Fig. 2A, a circuit comprising: "a first relaxation circuit (Q1)";

Art Unit: 2816

"first (drain of Q1 connected to Vcc) and second (N1) nodes"; "a second relaxation circuit (Q2)"; "third (drain of Q2 connected to Vcc) and second (N2)"; "a first charge pump (C1 and IV1)"; "a second charge pump (C2 and IV2)"; "a third charge pump (C4 and Q6)"; "a fourth charge pump (C3 and Q5)"; a first rectifier MOSFET (Q3)"; "a fifth node (Vout)"; and "a second rectifier MOSFET (Q4)", all connected and operating similarly as recited by Applicant.

Claims 2-11 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims. None of the cited prior art references, except the reference to Jeong, teach that the "relaxation circuits" comprise two series-connected "MOSFETs". With respect to the circuit to Jeong, such does not disclose that the outputs of the "third charge pump (C104 and PM110)" and the "fourth charge pump (C103 and PM107)" are connected to the "first charge pump (C101 and PM102)" and the "second charge pump (C102 and PM104)", respectively.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Terry Cunningham whose telephone number is 571-272-1742. The examiner can normally be reached on Monday-Thursday from 7:30 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy P. Callahan can be reached on 571-272-1740. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

Application/Control Number: 10/644,777

Art Unit: 2816

Page 4

applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TC

September 1, 2004

Terry D. Cunningham

Art Unit 2816